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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/516,859	12/03/2004	Casimir Johan Crawley	PU020269	7325	
Joseph S Tripo	7590 07/13/2007 li	EXAMINER			
Thomson Licer	Thomson Licensing Inc			HU, RUI MENG	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/516,859	CRAWLEY, CASIMIR JOHAN			
Office Action Summary	Examiner	Art Unit			
	RuiMeng Hu	2618			
The MAILING DATE of this communication eriod for Reply	appears on the cover sheet wi	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory po - Failure to reply within the set or extended period for reply will, by so Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNION R 1.136(a). In no event, however, may a r n. eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
tatus	•				
1) Responsive to communication(s) filed on 1	18 April 2007.				
2a) ☐ This action is FINAL . 2b) ☑					
3) Since this application is in condition for all	owance except for formal matt	ers, prosecution as to the merits is			
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.			
isposition of Claims					
4) Claim(s) 1-17 is/are pending in the applica	tion.	·			
4a) Of the above claim(s) is/are with					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-17</u> is/are rejected.	•				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction a	nd/or election requirement.				
pplication Papers					
9)☐ The specification is objected to by the Exar	miner.				
10) The drawing(s) filed on is/are: a)		by the Examiner.			
Applicant may not request that any objection to	the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the co	rrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the	e Examiner. Note the attached	d Office Action or form PTO-152.			
iority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for formal ☐ All b) ☐ Some * c) ☐ None of:	eign priority under 35 U.S.C. §	} 119(a)-(d) or (f).			
1. Certified copies of the priority docum	nents have been received.				
2. Certified copies of the priority docum		• •			
3. Copies of the certified copies of the	•	received in this National Stage			
application from the International Bu	, , , , , , , , , , , , , , , , , , , ,				
* See the attached detailed Office action for a	i list of the certified copies not	received.			
itachment(s)					
✓ Notice of References Cited (PTO-892)✓ Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date			
Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of I	nformal Patent Application			
Paper No(s)/Mail Date	6) 🔲 Other:	<u> </u>			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-17 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 7-11 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

MPEP 2106.01 indicates "when functional descriptive material is <u>recorded</u> on some computer-readable medium, it becomes structurally and functionally interrelated to the medium and will be statutory <u>in most cases</u> since use of technology permits the function of the descriptive material to be realized." **Claim 7** claims a computer readable medium <u>containing</u> software instructions, but claim 7 fails to specifically claim the software instructions is <u>recorded</u> on the computer readable medium, thus the software instructions is not structurally interrelated to the medium. In addition, the specification fails to mention examples of such computer readable medium, thus said readable medium is not limited to physical devices and could reasonably include electromagnetic propagating signals, which do not fall under statutory subject matter.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 1-2, 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bowles (US Patent 6389548) in view of Ozawa et al. (US 2001/0033531).

Consider **claim 1**, Bowles clearly disclose apparatus comprising: a receiver (figure 3, compact disc (CD) player, CD Pickup 33) for receiving an CD signal; a decoder (figure 3, EFM Demodulator 38) for demodulating said CD signal; and a processor (column 8 lines 6-67, figure 3, slicer 37 and hfSync 32) for polling said decoder for a loss of a phase lock in said demodulating of said CD signal.

Bowles fails to disclose the signal from a compact disc (CD) is audio file signal.

In the same field of endeavor, Ozawa et al. disclose a CD player plays audio data (Background of the Invention, figure 2, audio data played back from a CD 91).

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Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the selection techniques taught by Ozawa et al. into the art of Bowles as capable to play audio file signal such as from a music CD.

Consider **claim 2** as applied to **claim 1**, Bowles as modified by Ozawa et al. discloses wherein said processor resets and reinitializes said decoder in response to said loss in said phase lock (column 8 lines 50-56).

Consider **claim 4** as applied to claim 1, Bowles as modified by Ozawa et al. discloses said decoder comprises an eight to fourteen modulation EFM decoder (figure 3, EFM Demodulator 38).

Consider **claim 5** as applied to claim 1 Bowles as modified by Ozawa et al. discloses wherein said decoder outputs a digital audio stream (figure 3, EFM Demodulator 38 continuously outputs 8-bit Data Bytes).

Consider claim 6 as applied to claim 5, Bowles as modified by Ozawa et al. fails to disclose wherein said digital audio stream conforms to an I2S audio stream. However, official notice is taken that I2S is used for digital electronic devices (as a CD player) is well known in the art. Therefore, it would have been obvious to use I2S interface to correspond the existing digital audio stream, and output stereo.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Bowles**(US Patent 6389548) as modified by Ozawa et al. (US 2001/0033531) in view of
Zuqert et al. (US 6466832).

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circuitry.

Consider claim 3 as applied to claim 1, Bowles as modified by Ozawa et al. fails to disclose wherein said receiver comprises 900 MHz radio frequency reception

In the related art, Zuqert et al. disclose a wireless receiver comprises 900 MHz radio frequency reception circuitry and capable of receiving CD digital audio signals (figure 7, Summary of the Invention).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the selection techniques taught by Zuqert et al. into the art of Bowles as modified by Ozawa et al. as to include a 900 MHz radio frequency reception circuitry to receive CD digital audio signals wirelessly for increasing system dynamic.

Claim 7-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zugert et al. (US 6466832) in view of Bowles (US Patent 6389548).

Consider **claim 7**, Zuqert et al. clearly disclose a computer readable medium containing software instructions that (column 16 lines 33-45, the processor containing software instructions adaptively controls operation of the receiver), when executed by a processor, perform the steps of: receiving a modulated audio file signal (figure 7, Abstract); demodulating said modulated audio file signal (figure 7, down-converters 38, base-band processors 40).

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However, Zugert et al. fail to specifically disclose polling said demodulating for a loss in a phase lock in said demodulating; resetting and reinitializing said demodulating in reply to said loss in said phase lock.

In the related art, Bowles discloses polling the demodulating for a loss in a phase lock in demodulating (column 8 lines 6-67, figure 3, slicer 37 and hfSync 32); resetting and reinitializing the demodulating in reply to said loss in said phase lock (column 8 lines 50-56).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the selection techniques taught by Bowles into the art of Zugert et al. as to efficiently demodulate received CD digital audio signals.

Consider claim 8 as applied to claim 7, Zugert et al. as modified by Bowles disclose demodulating is a digital eight to fourteen modulation digital decoding (Bowles, figure 3, EFM Demodulator 38).

Consider claim 9 as applied to claim 7, Zugert et al. as modified by Bowles disclose receiving is synchronized to a 900 MHz range carrier frequency modulated by said audio file signal (Zugert, column 16 lines 58-60).

Consider claim 10 as applied to claim 7, Zugert et al. as modified by Bowles disclose wherein said decoder outputs a digital audio stream (Zugert, figure 7, digital audio stream going into D/A converter 42).

Consider claim 11 as applied to claim 7, Zugert et al. as modified by Bowles disclose wherein said polling is carried out by a processor (Bowles, figure 3, slicer 37).

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Consider **claim 12**, Zuqert et al. clearly disclose a method for detecting a signal loss in a wireless audio file signal transmission (Abstract, figure 7, column 18 lines 17-26), said method comprising the steps of: receiving an audio file signal (Abstract); decoding said audio file signal (figure 7, down-converters 38, base-band processors 40); and polling received modulated signal for a loss of a phase lock in carrier frequency (column 18 lines 17-26).

However, Zuqert et al. fail to specifically disclose polling said decoding for a loss of a phase lock in said decoding of said audio file signal.

In the related art, Bowles discloses polling the decoding for a loss of a phase lock in decoding of CD file signal. (column 8 lines 6-67, figure 3, slicer 37 and hfSync 32).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to incorporate the selection techniques taught by Bowles into the art of Zuqert et al. as to efficiently demodulate received CD digital audio signals.

Consider **claim 13** as applied to claim 12, Zuqert et al. as modified by Bowles disclose further comprising the step of resetting and reinitializing said decoding in response to said loss in said phase lock in said decoding (Bowles, column 8 lines 50-56).

Consider **claim 14** as applied to claim **12**, Zuqert et al. as modified by Bowles disclose said step of receiving comprises 900 MHz range carrier frequency synchronizing (Zuqert, column 16 lines 58-60).

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Consider claim 15 as applied to claim 12, Zuqert et al. as modified by Bowles disclose said step of decoding comprises an eight to fourteen bit modulation EFM decoding (Bowles, figure 3, EFM Demodulator 38).

Consider **claim 16** as applied to claim **12**, Zuqert et al. as modified by Bowles disclose wherein said step of decoding outputs a digital audio stream (Bowles, figure 3, EFM Demodulator 38 continuously outputs 8-bit Data Bytes).

Consider **claim 17** as applied to claim 16, Zuqert et al. as modified by Bowles fail to disclose wherein said digital audio stream conforms to an I2S audio stream. However, official notice is taken that I2S is used for digital electronic devices (as a CD player) is well known in the art. Therefore, it would have been obvious to use I2S interface to correspond the existing digital audio stream, and output stereo.

Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or mailed

to:

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Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RuiMeng Hu whose telephone number is 571-270-1105.

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The examiner can normally be reached on Monday - Thursday, 8:00 a.m. - 5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RuiMeng Hu R.H./rh June 27, 2007

> EDWARD F. URBAN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600